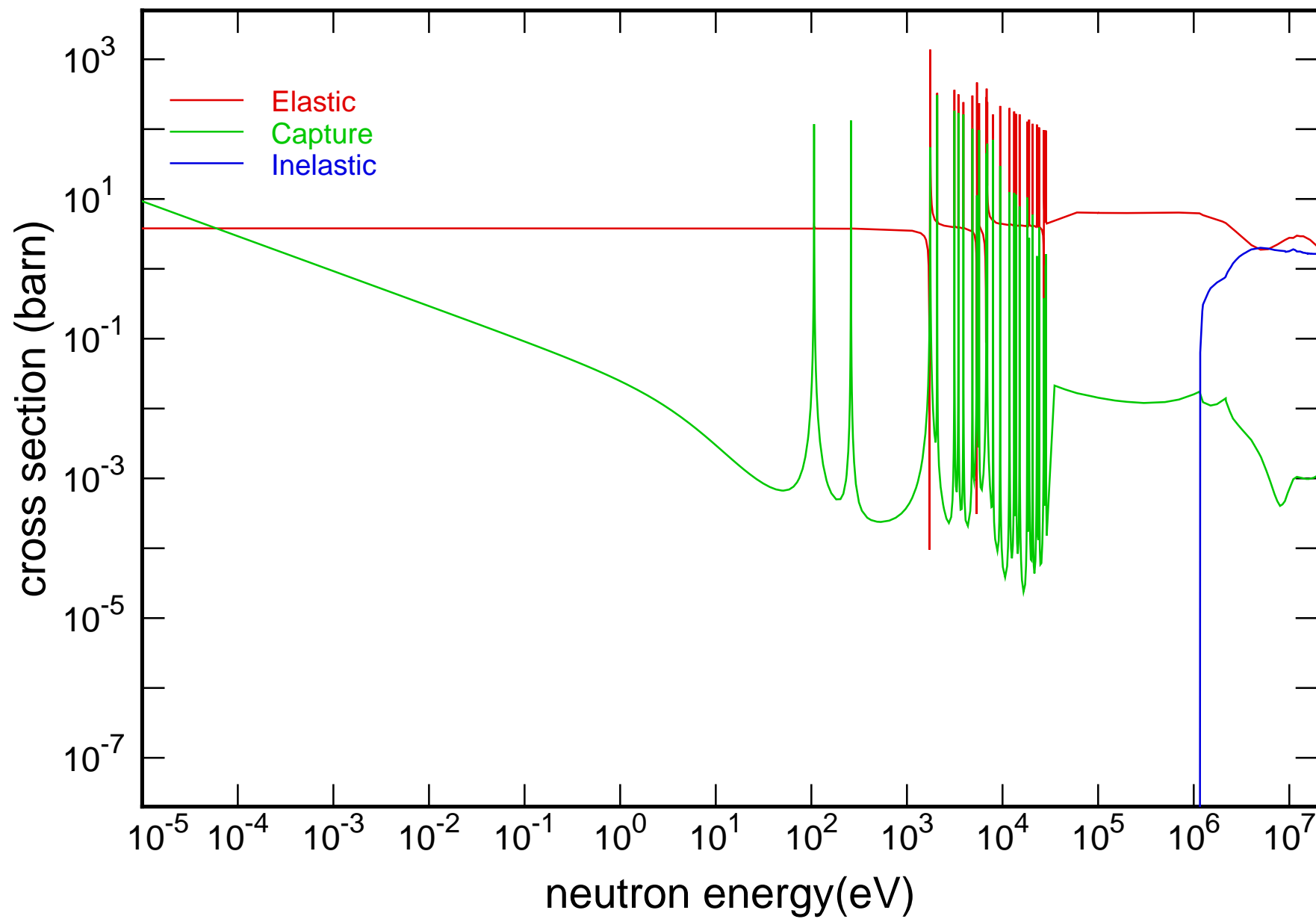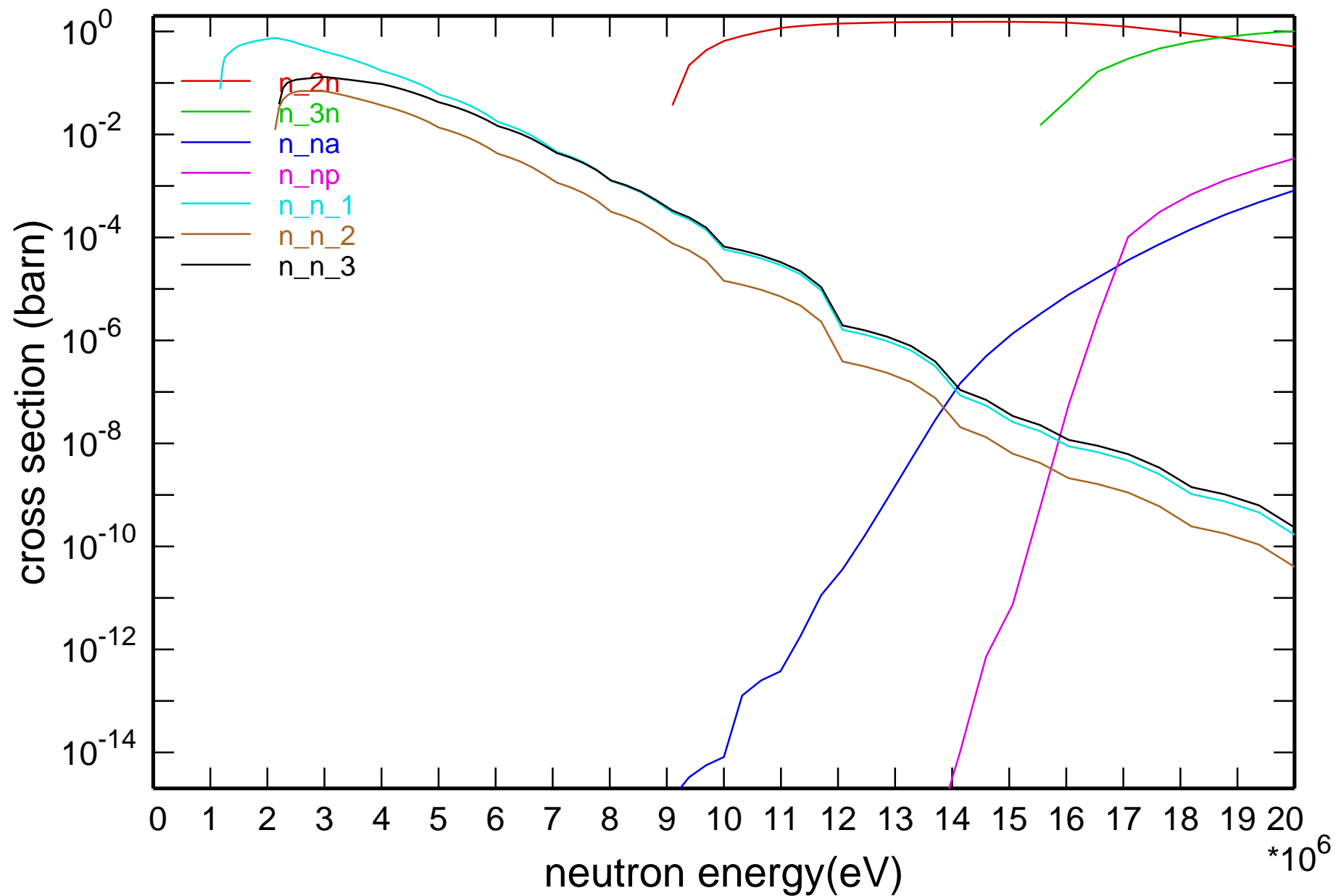Main Cross Sections

Cross Section

Cross Section

Legend:
- n_n_4 (red)
- n_n_5 (green)
- n_n_6 (blue)
- n_n_7 (magenta)
- n_n_8 (cyan)
- n_n_9 (brown)
- n_n_cont (black)

Y-axis: cross section (barn)

X-axis: neutron energy(eV) ×10^6

Cross Section

cross section (barn)

neutron energy(eV)

n_n_tot
n_p_tot
n_d_tot
n_t_tot
n_a_tot
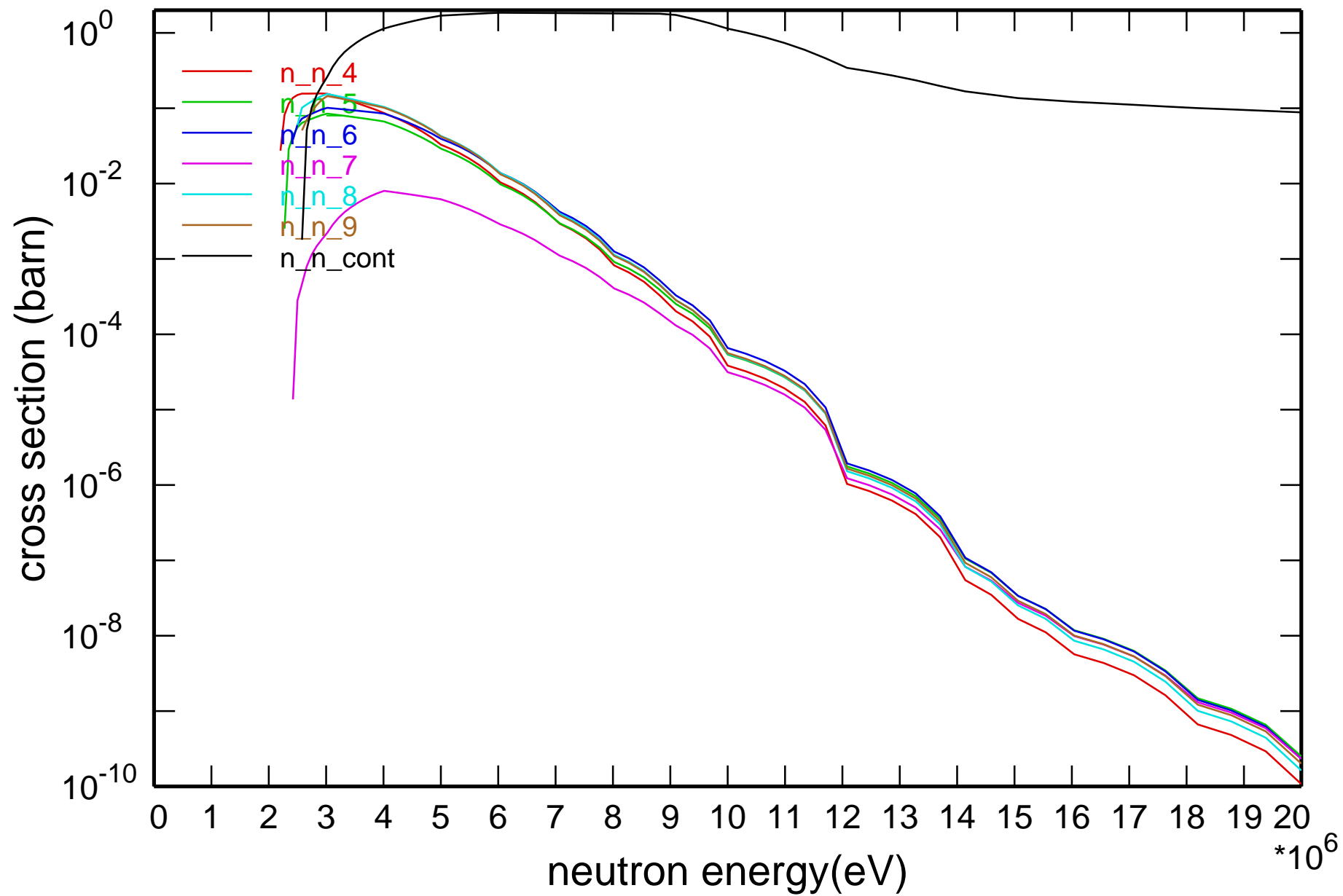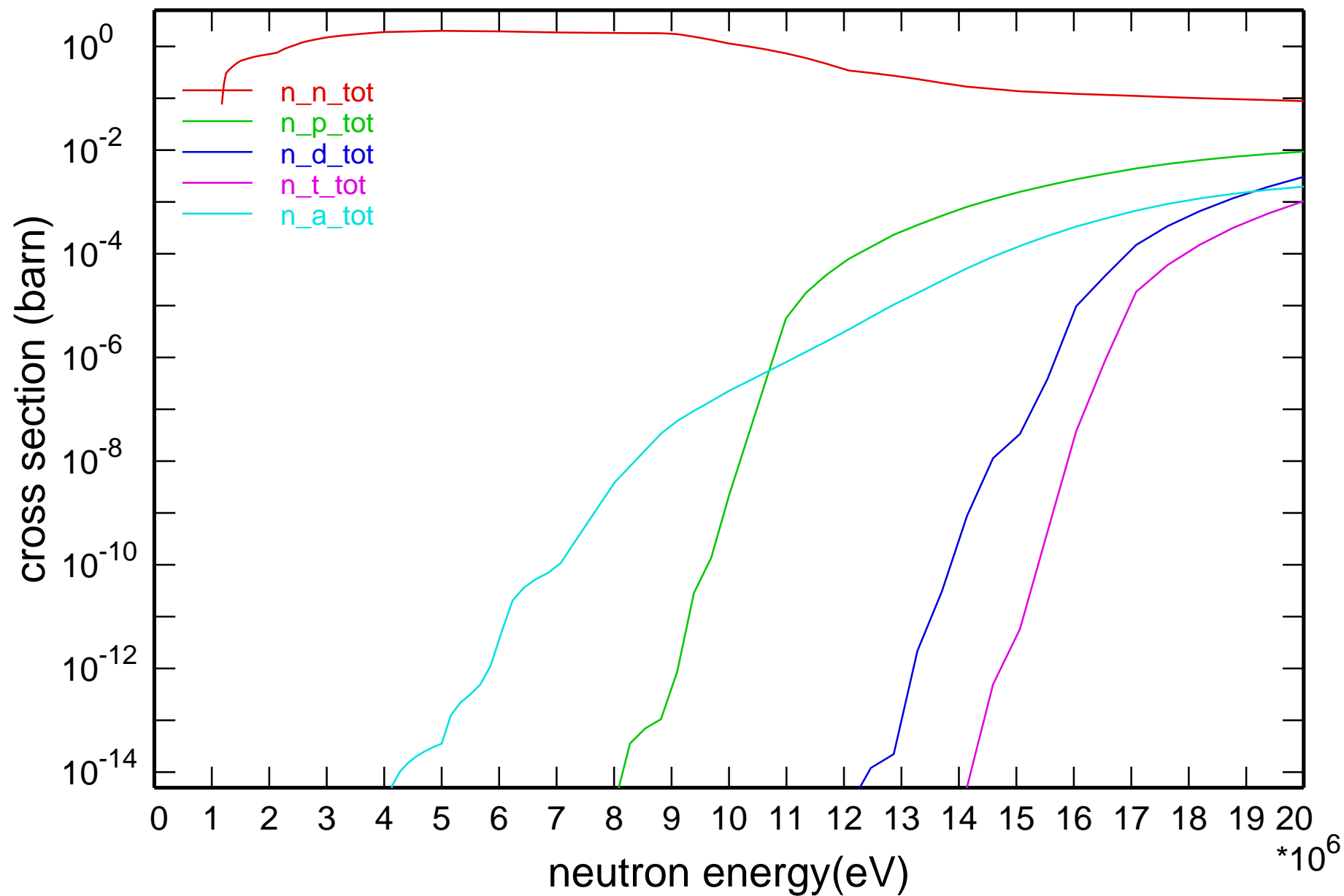
Angular distribution (CMS)
Elastic
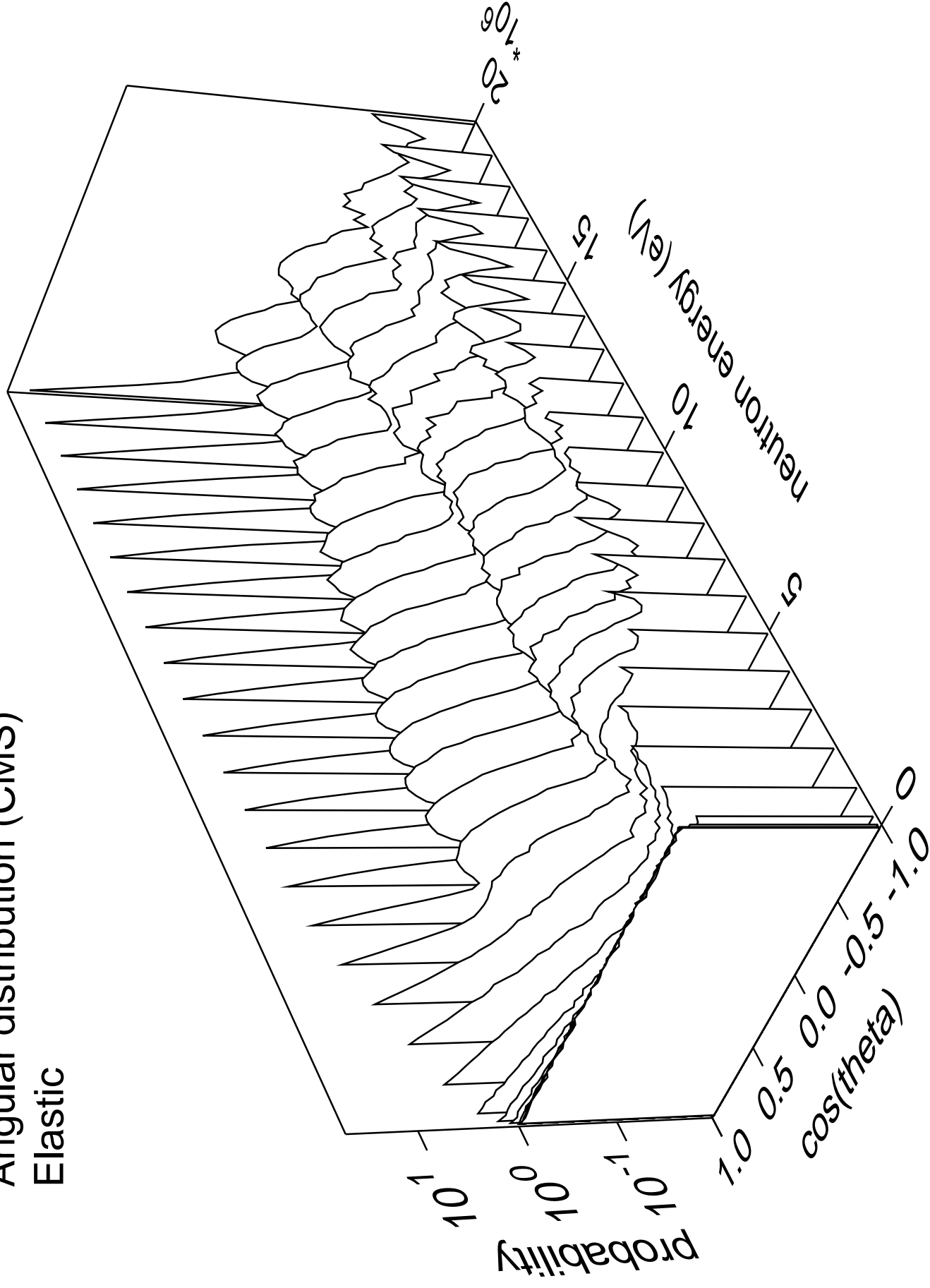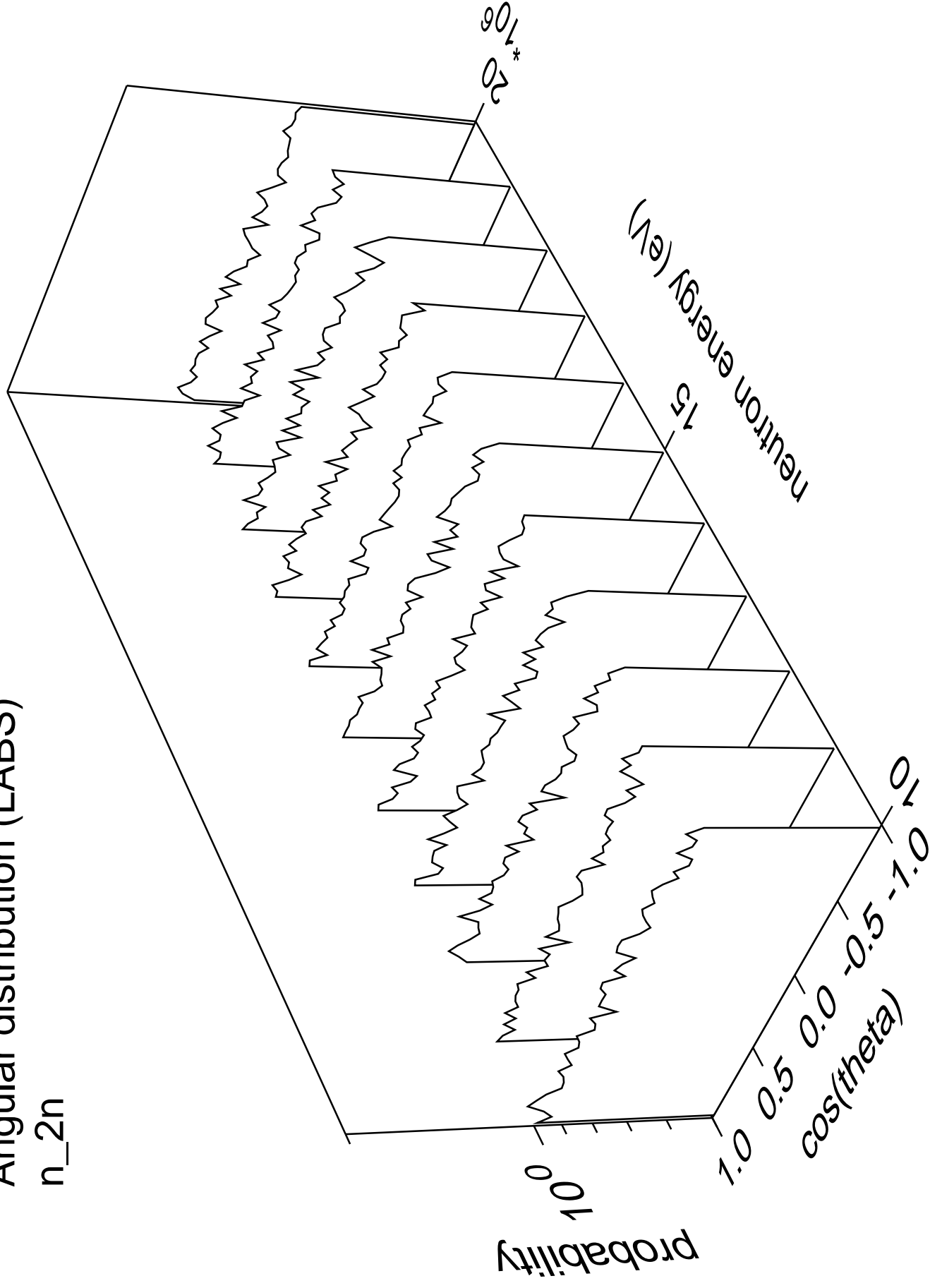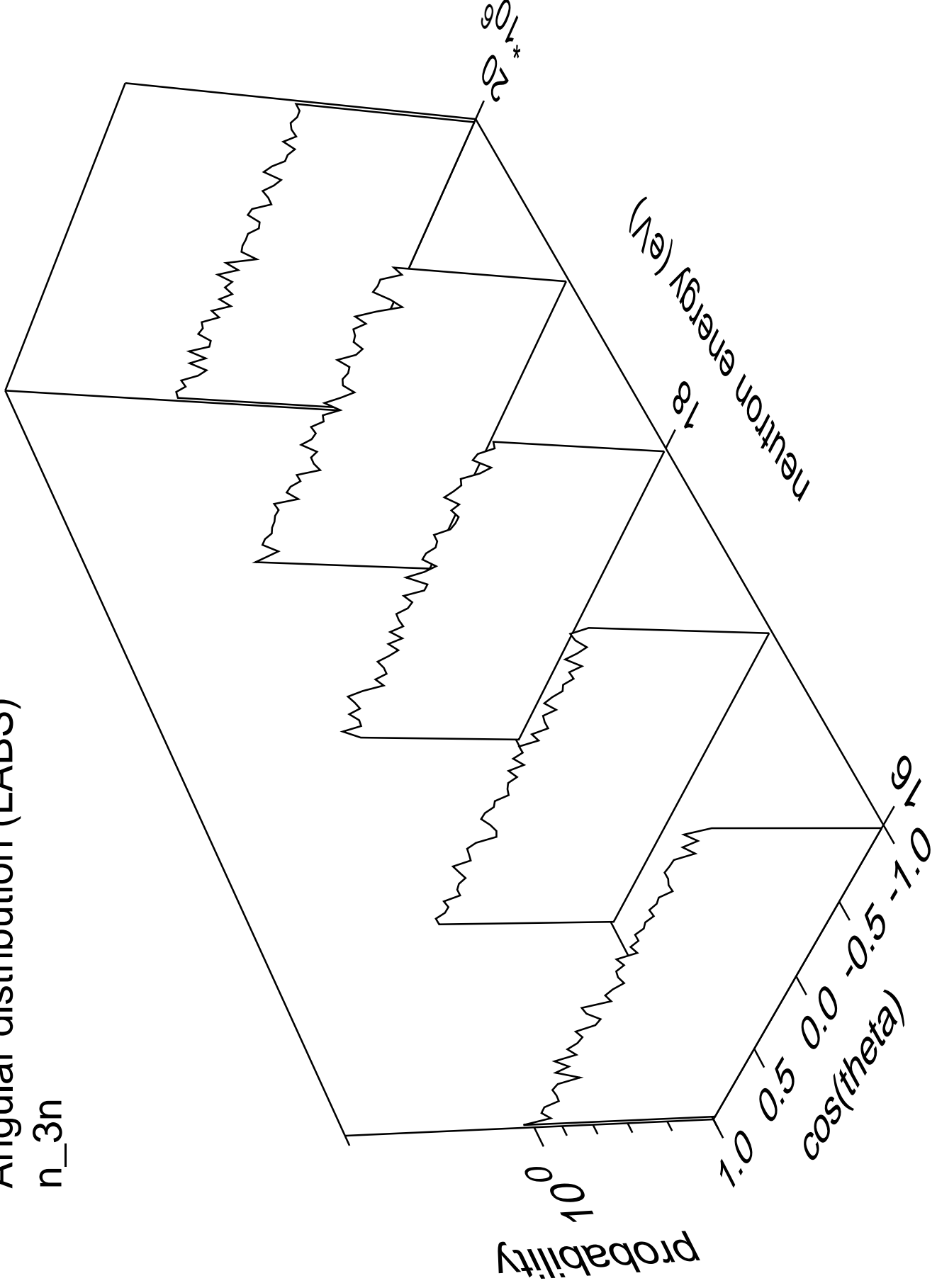
probability

neutron energy (eV)

cos(theta)

Angular distribution (LABS)
n_2n

probability

cos(theta)

neutron energy (eV)

Angular distribution (LABS)
n_3n

probability

10⁰

20 *10⁶

18

16

1.0 0.5 0.0 -0.5 -1.0

cos(theta)

neutron energy (eV)

Angular distribution (LABS)
n_na

neutron energy (eV)

cos(theta)

probability

Angular distribution (LABS)
n_np

neutron energy (eV)

cos(theta)

probability

10^0

20 *10^6

18

16

14

12

1.0 0.5 0.0 -0.5 -1.0

Angular distribution (CMS)
n_n_1

cos(theta)

1.0 0.5 0.0 -0.5 -1.0

0

5

10

15

20 *10⁶

neutron energy (eV)

probability

10⁰

Angular distribution (CMS)
n_n_2

neutron energy (eV)

cos(theta)

probability

20
15
10
5
0

*10⁶

1.0 0.5 0.0 -0.5 -1.0

10⁰

Angular distribution (CMS)
n_n_3

probability

neutron energy (eV)

cos(theta)

20 *10⁶

15

10

5

0

1.0 0.5 0.0 -0.5 -1.0

Angular distribution (CMS)
n_n_4

probability

cos(theta)

neutron energy (eV)

Angular distribution (CMS)
n_n_5

cos(theta)

neutron energy (eV)

probability

$*10^6$

Angular distribution (CMS)
n_n_6

probability

neutron energy (eV)

cos(theta)

*10⁶
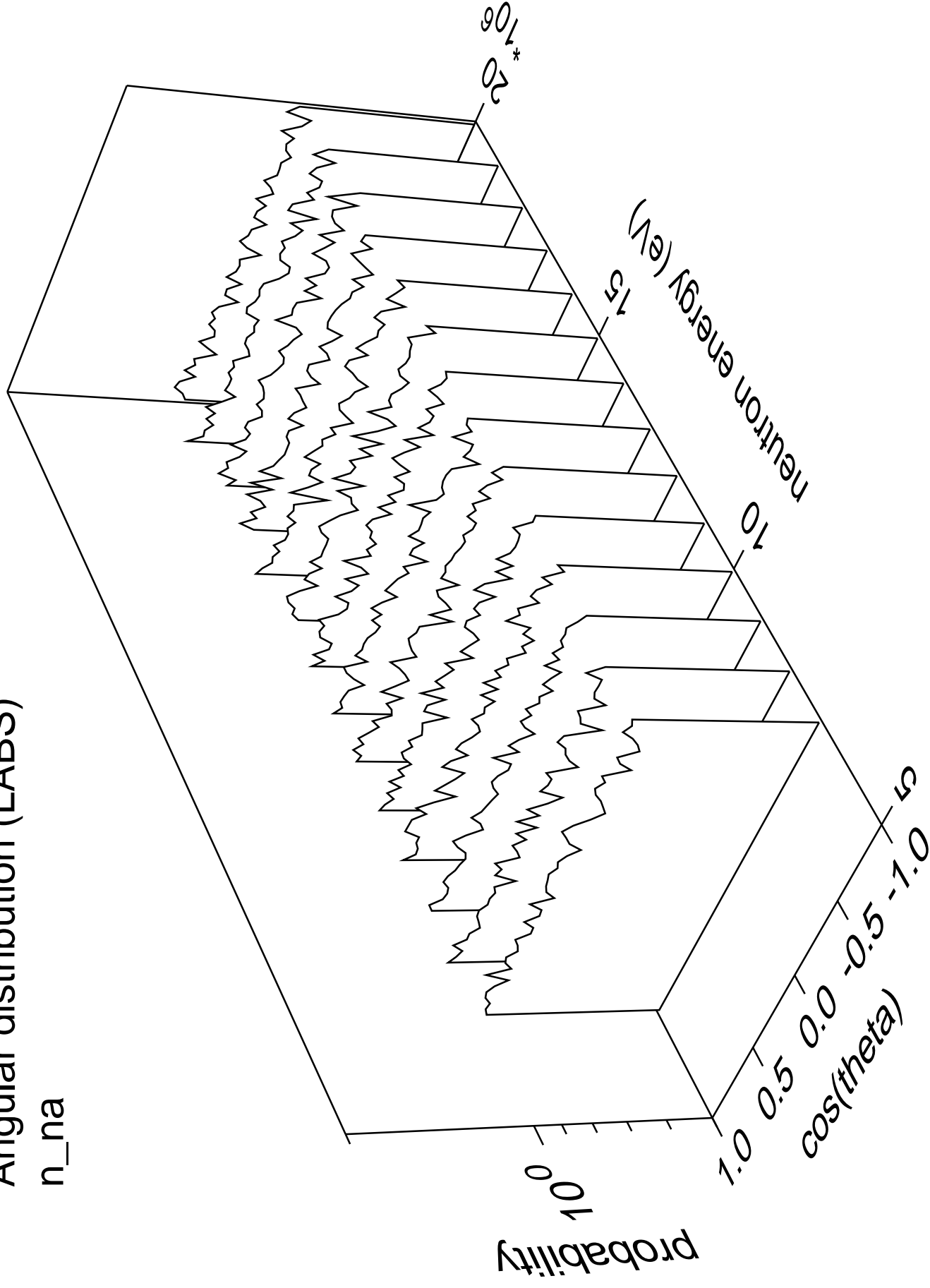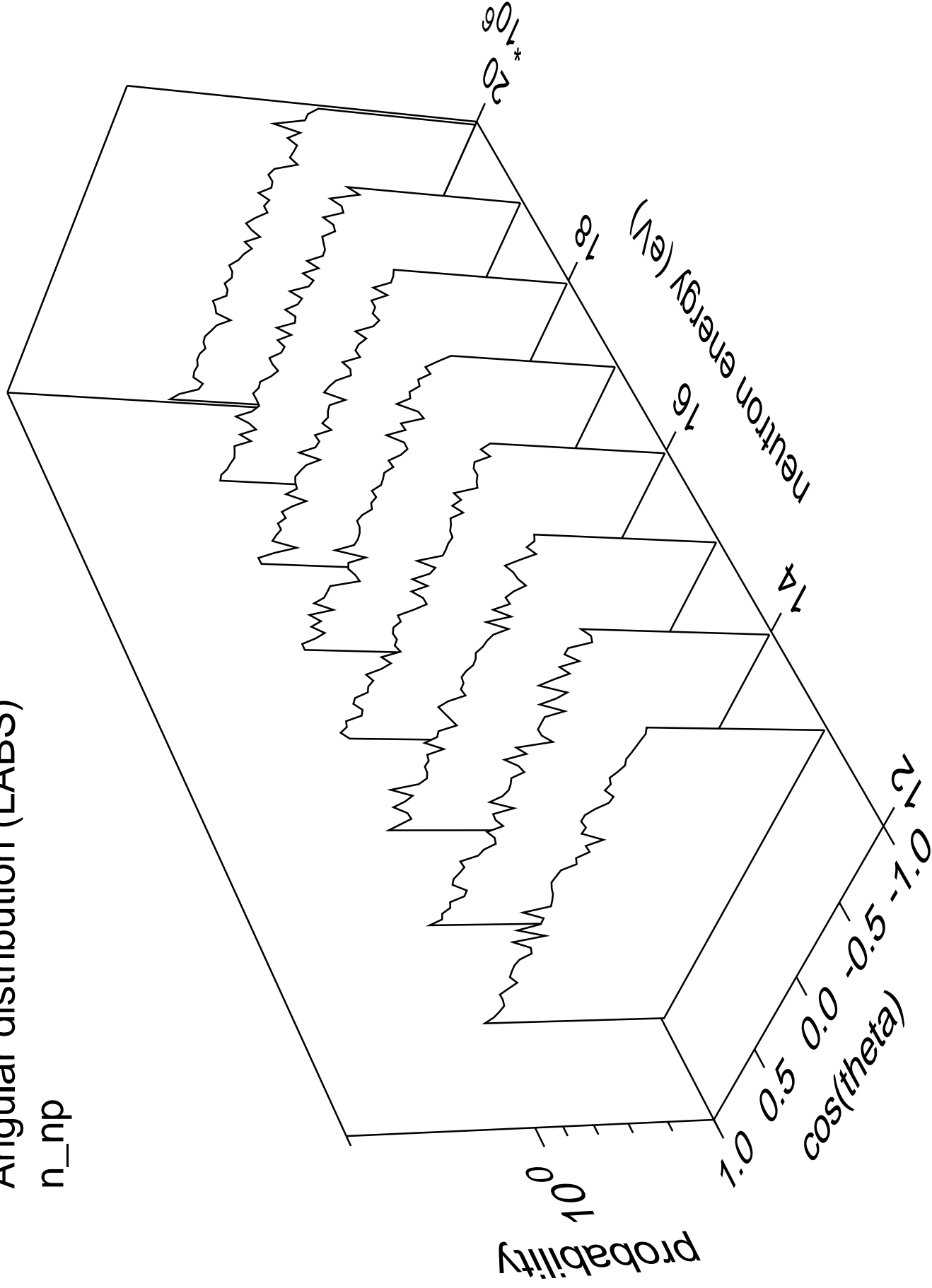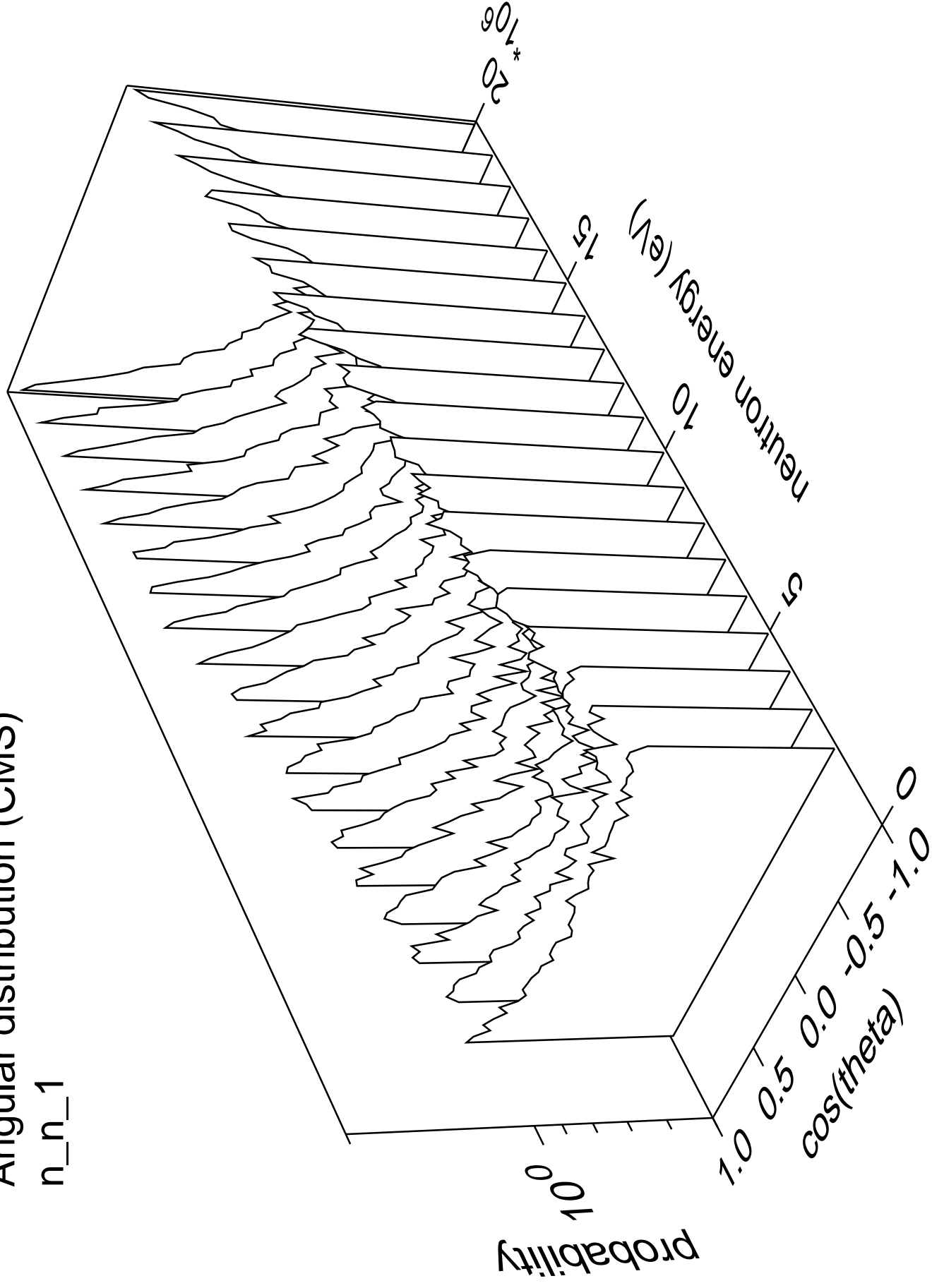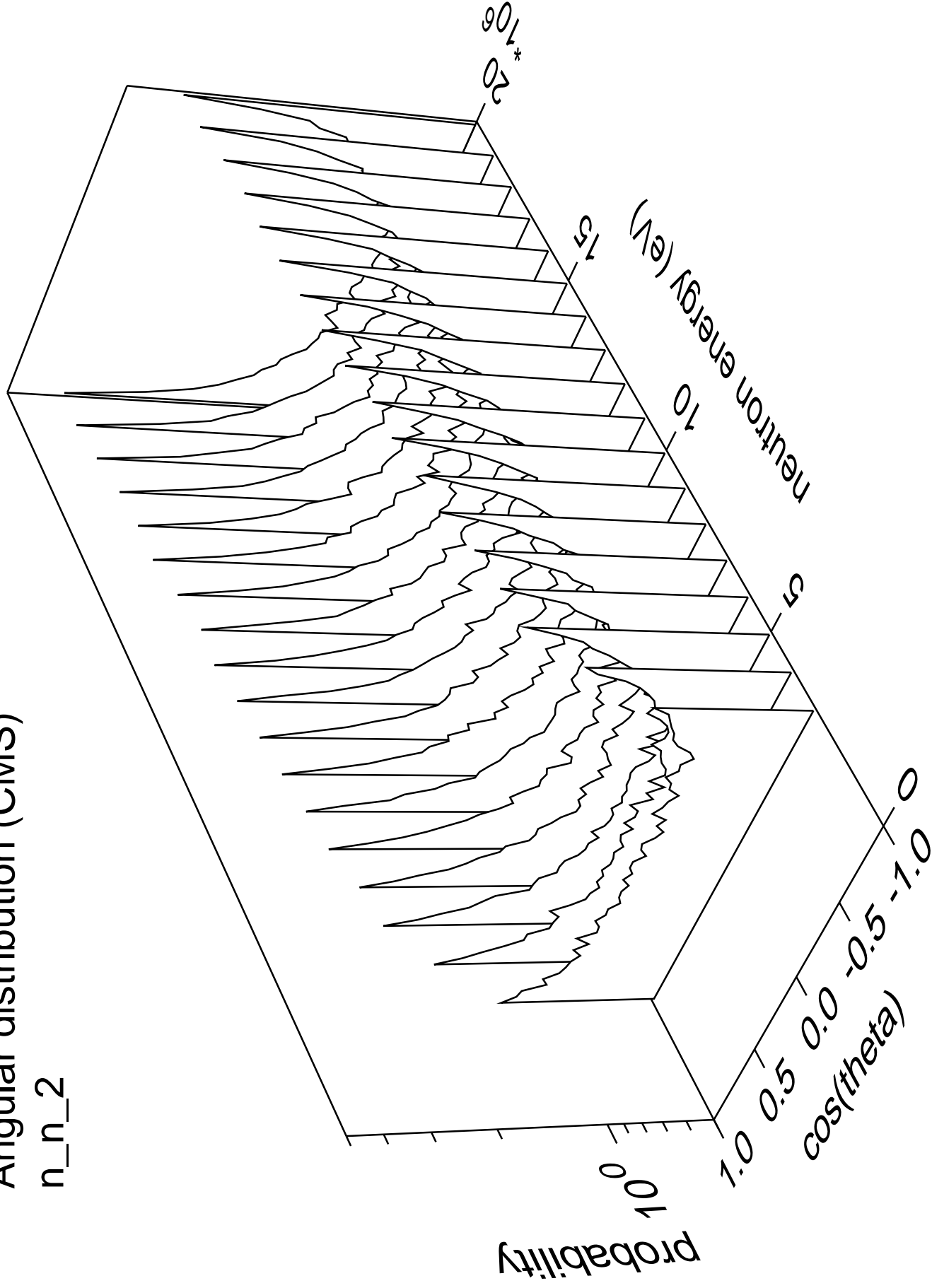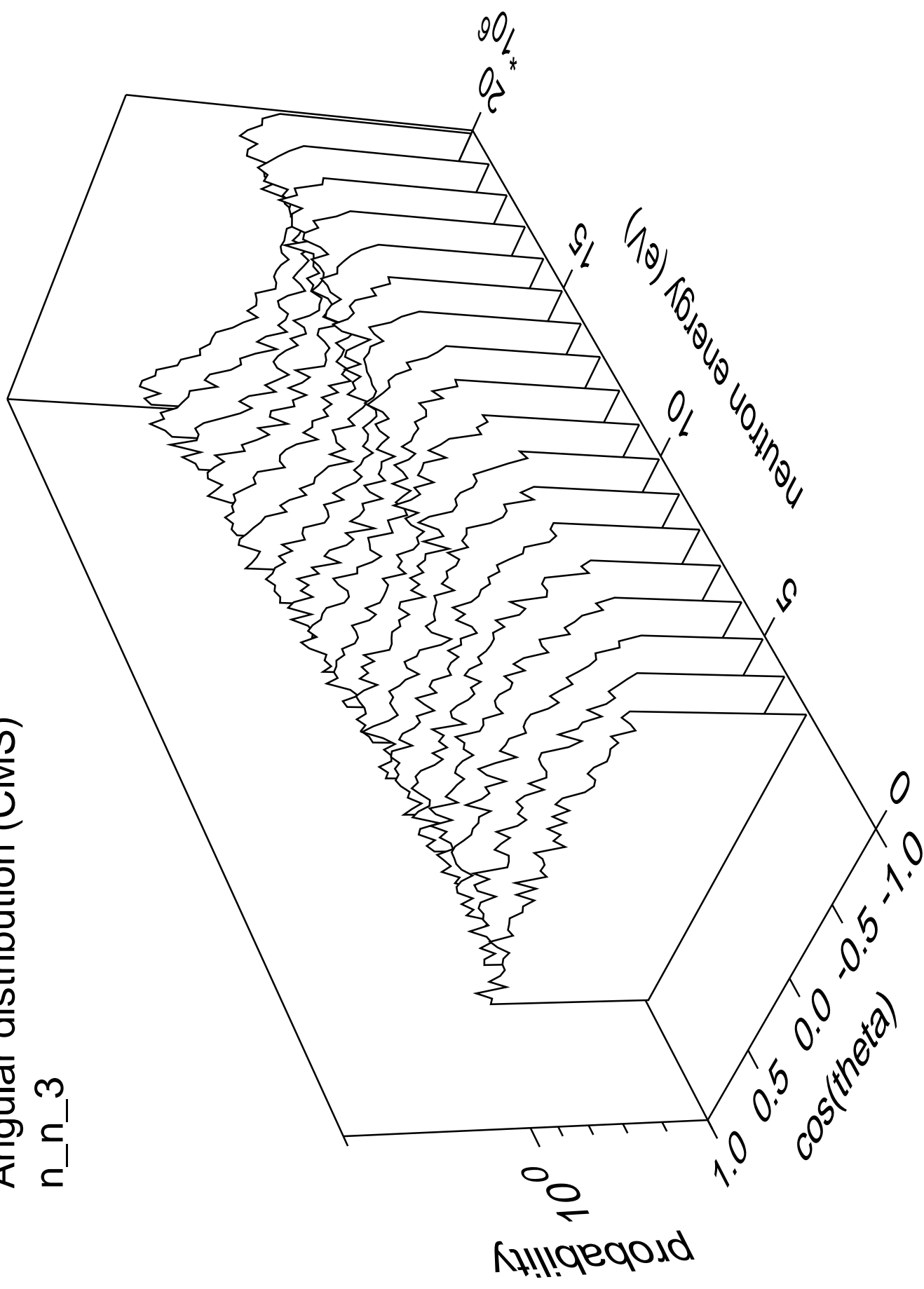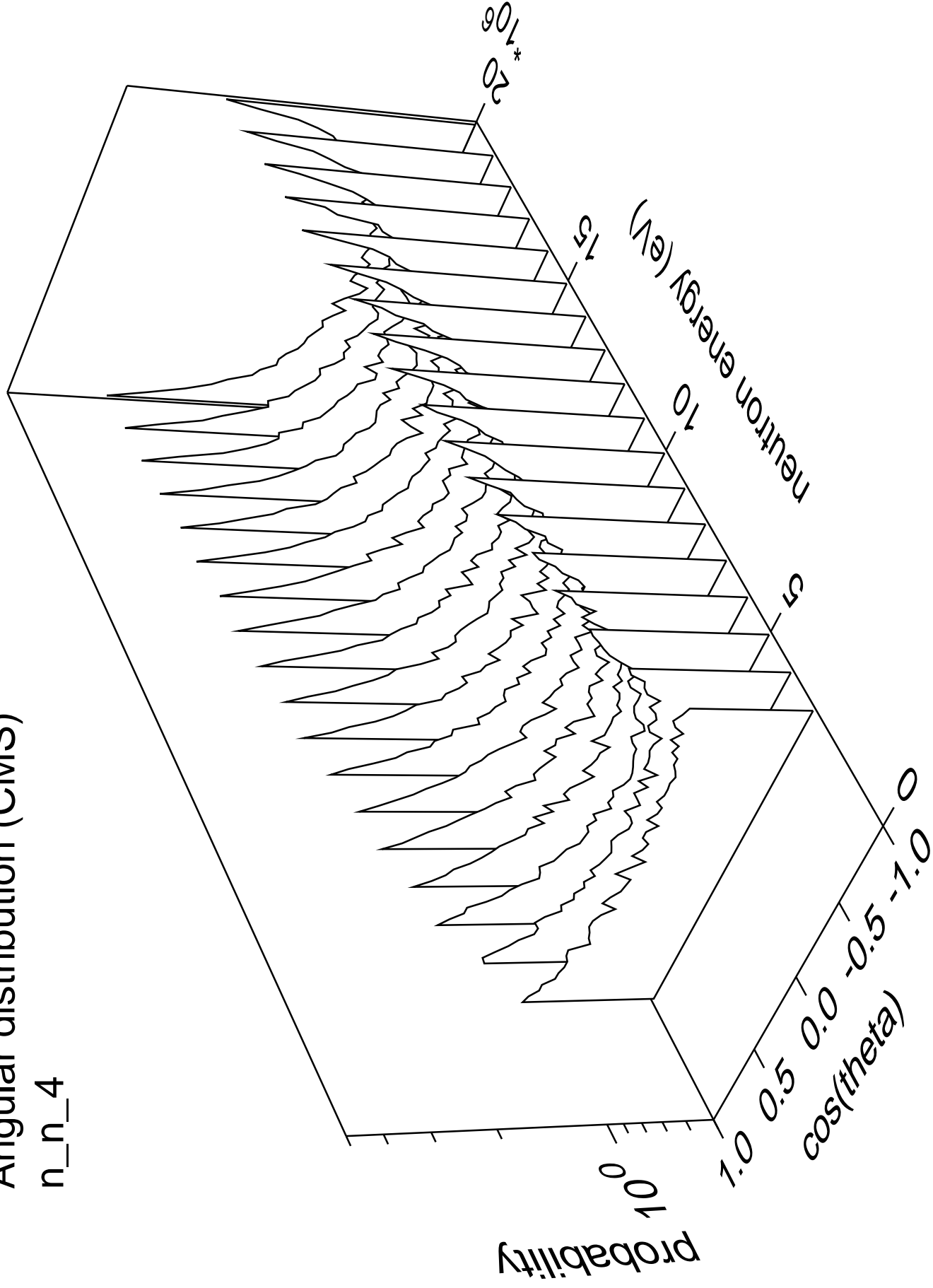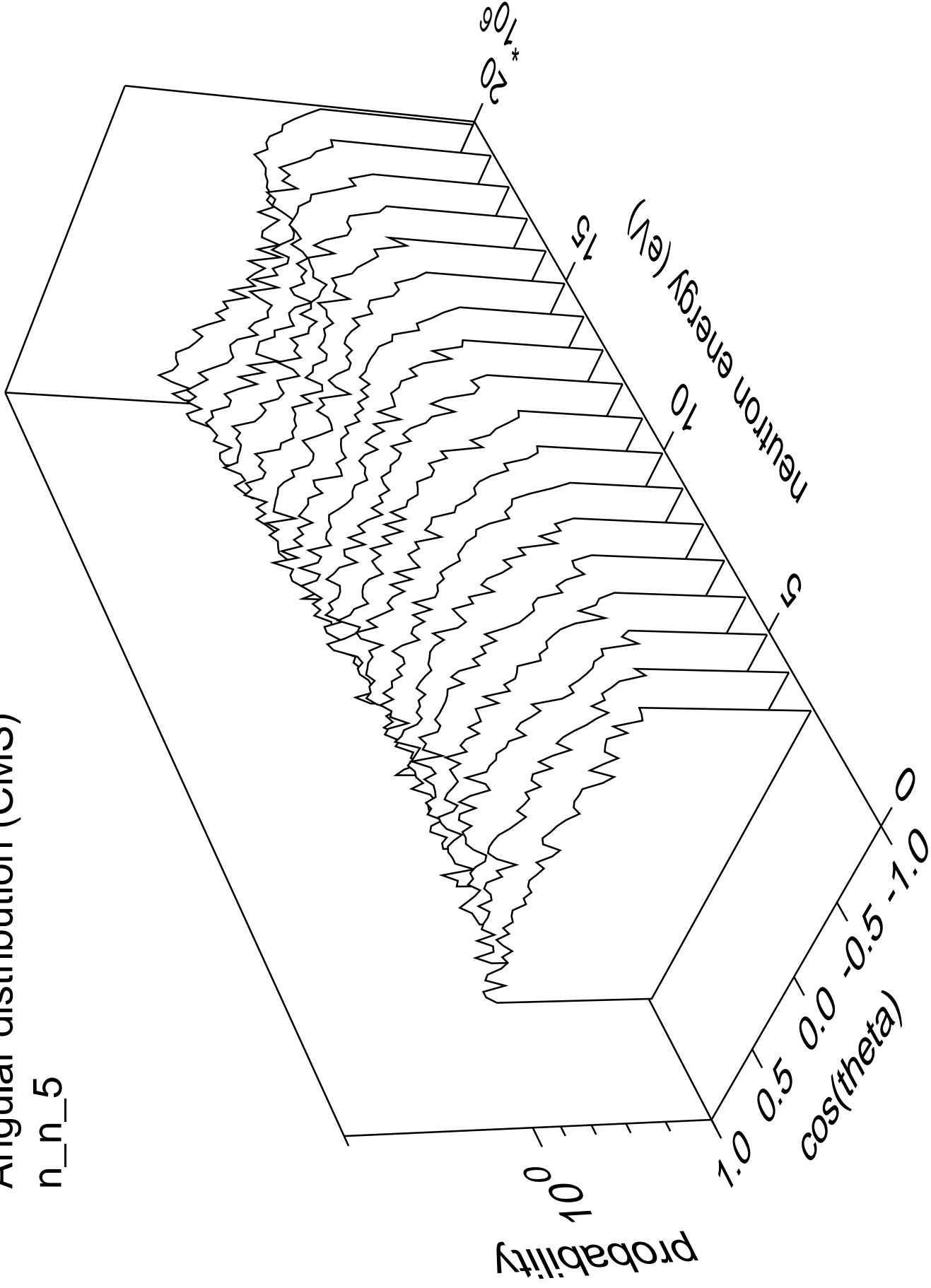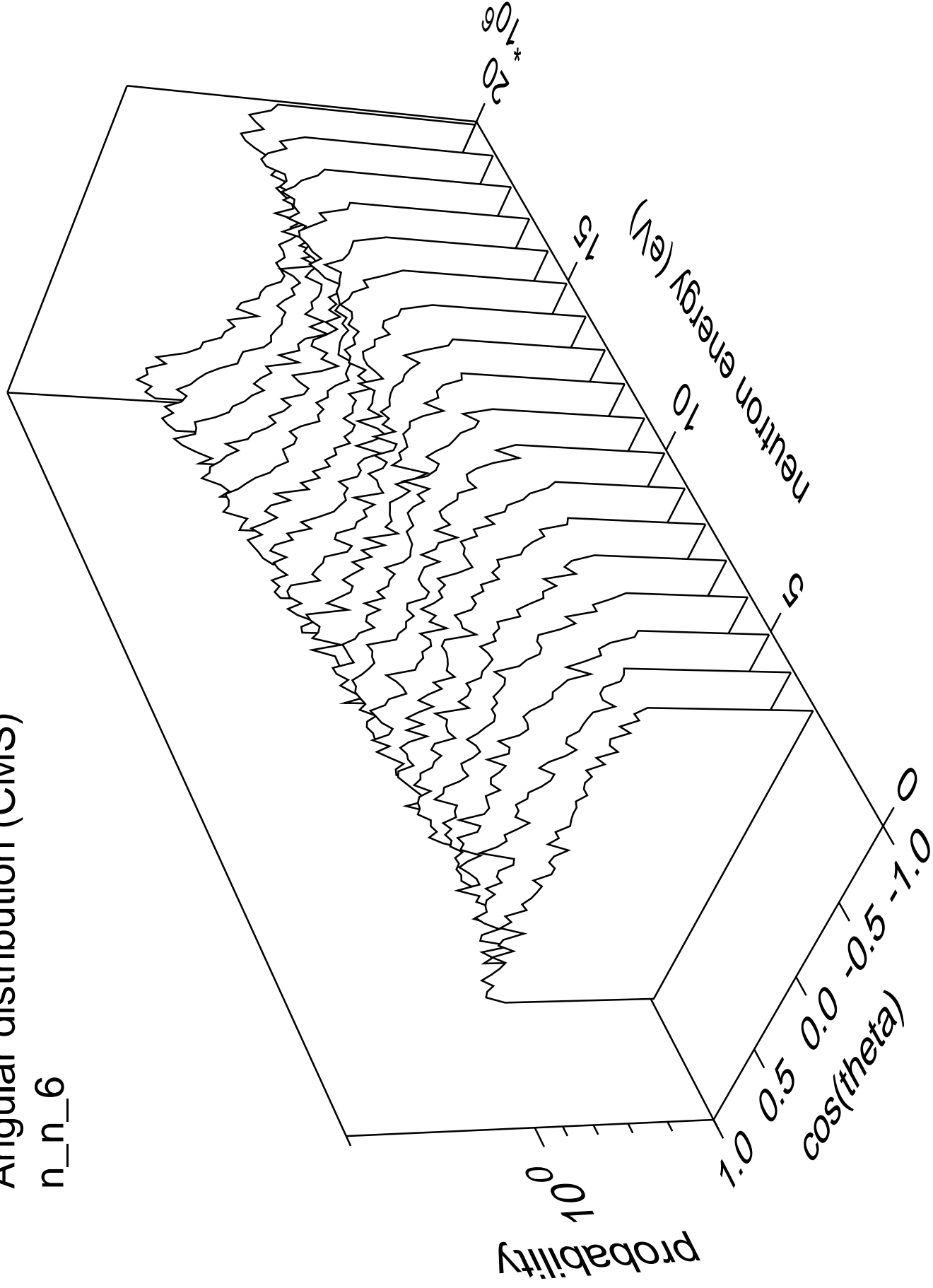
Angular distribution (CMS)
n_n_7

Angular distribution (CMS)
n_n_8
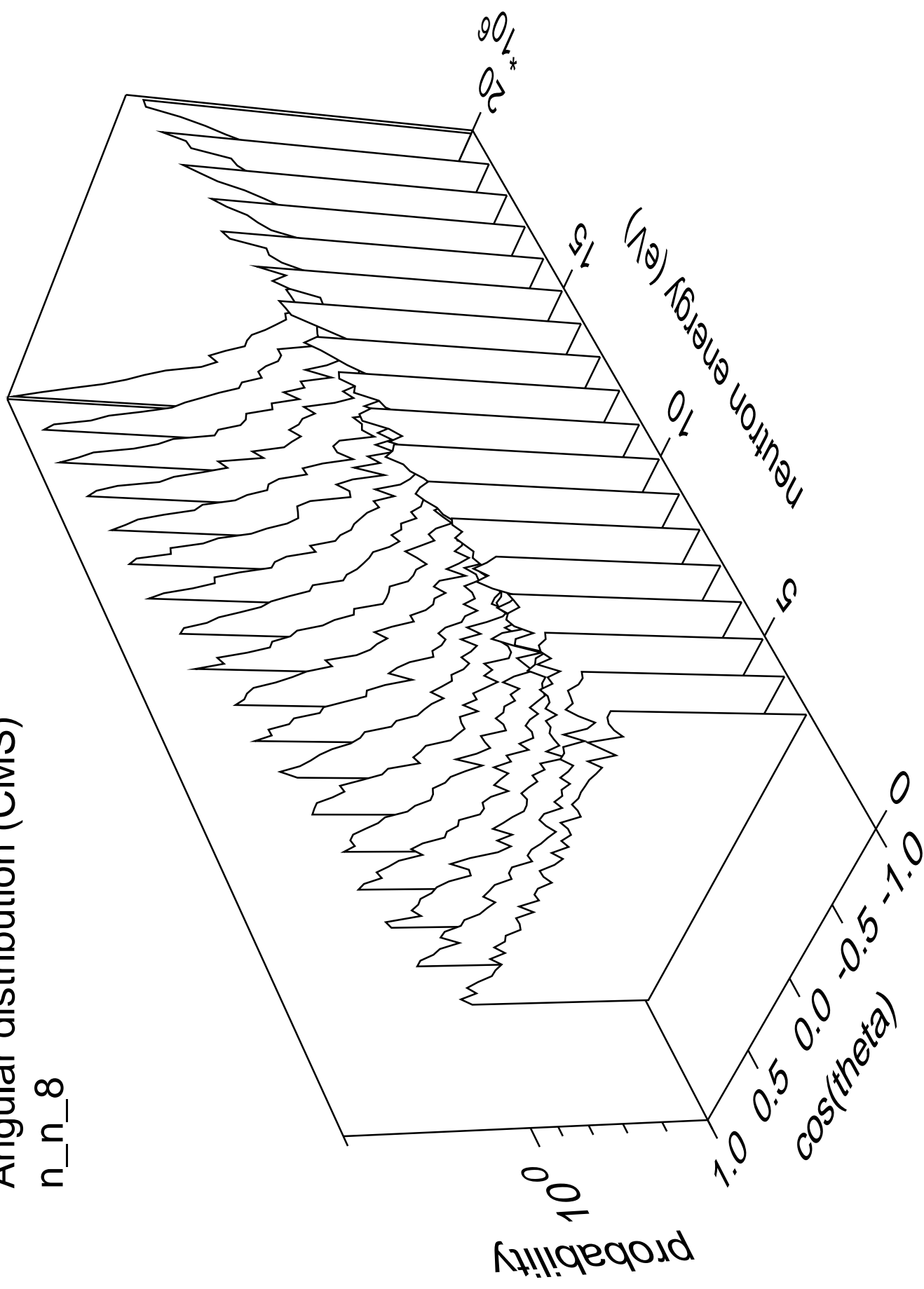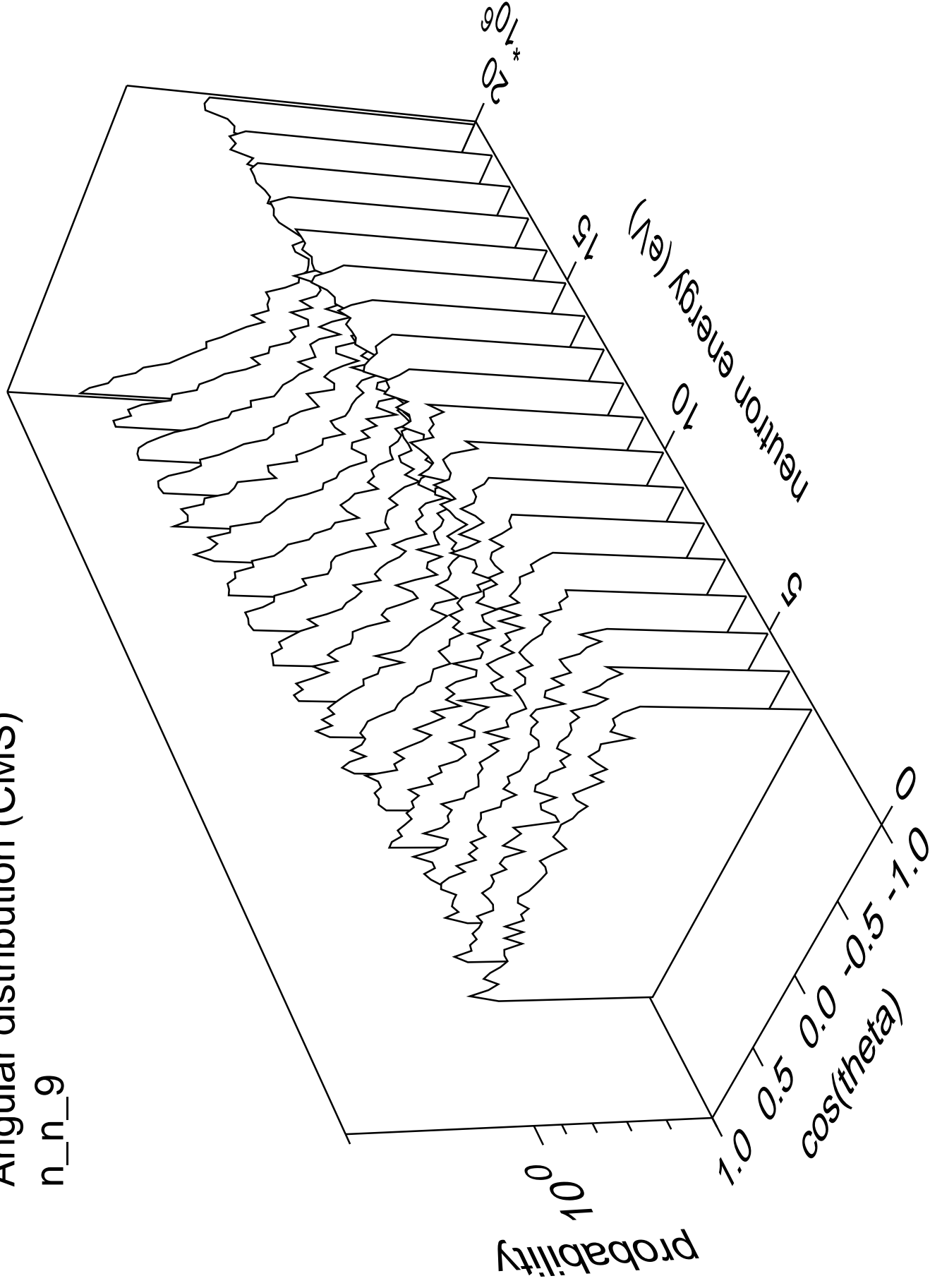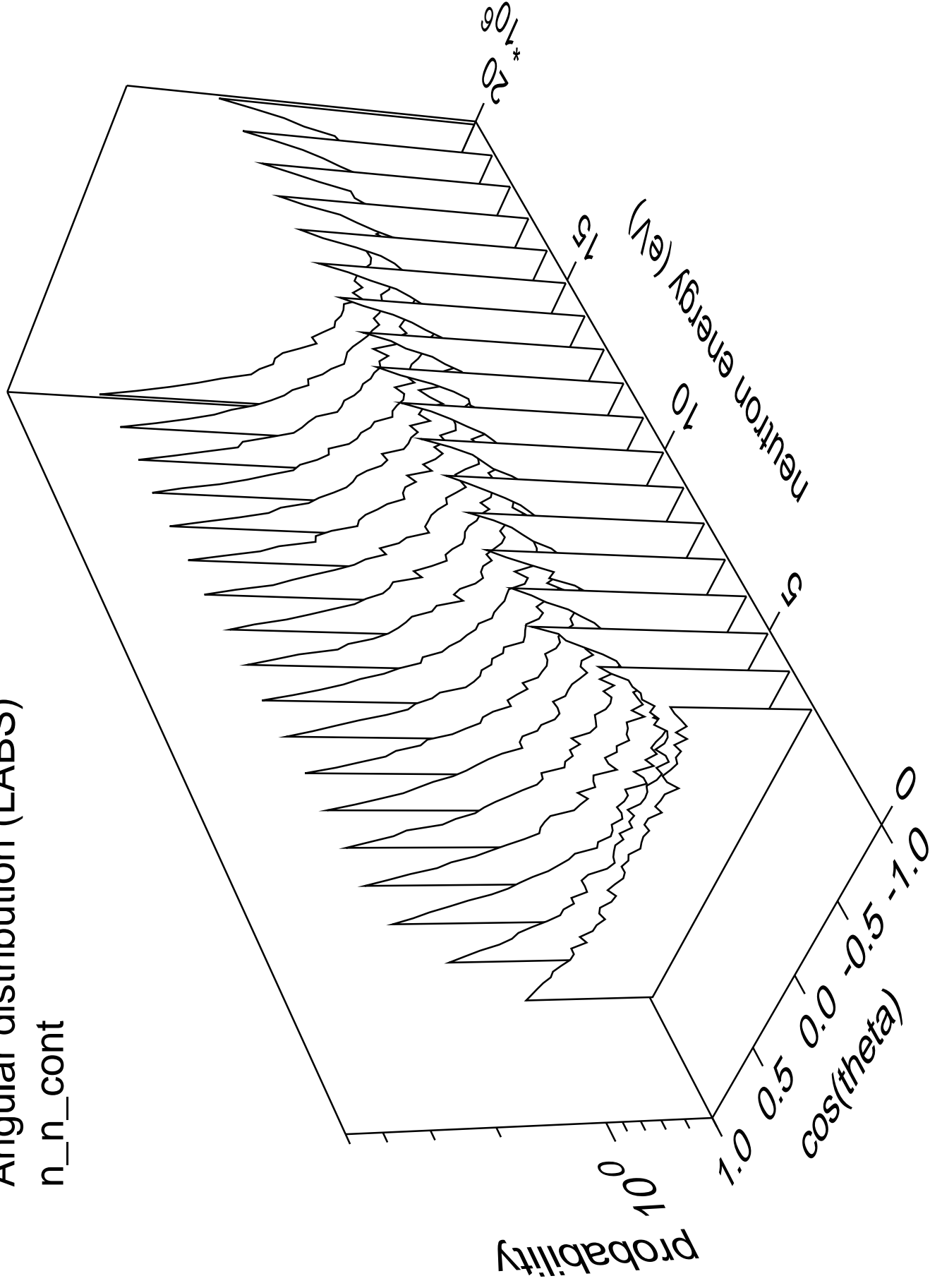
probability

neutron energy (eV)

cos(theta)

*10⁶

Angular distribution (CMS)
n_n_9

cos(theta)

neutron energy (eV)

probability

*10⁶

Angular distribution (LABS)
n_n_cont

cos(theta)

neutron energy (eV)

probability

Energy distribution (LABS)
n_2n

probability

10^1
10^0
10^{-1}

energy (eV)

5
10
15
$*10^6$

neutron energy (eV)

10
15
20
$*10^6$

Energy distribution (LABS)
n_3n

probability

neutron energy (eV)

energy (eV)

Energy distribution (LABS)
n_na

probability

10^1

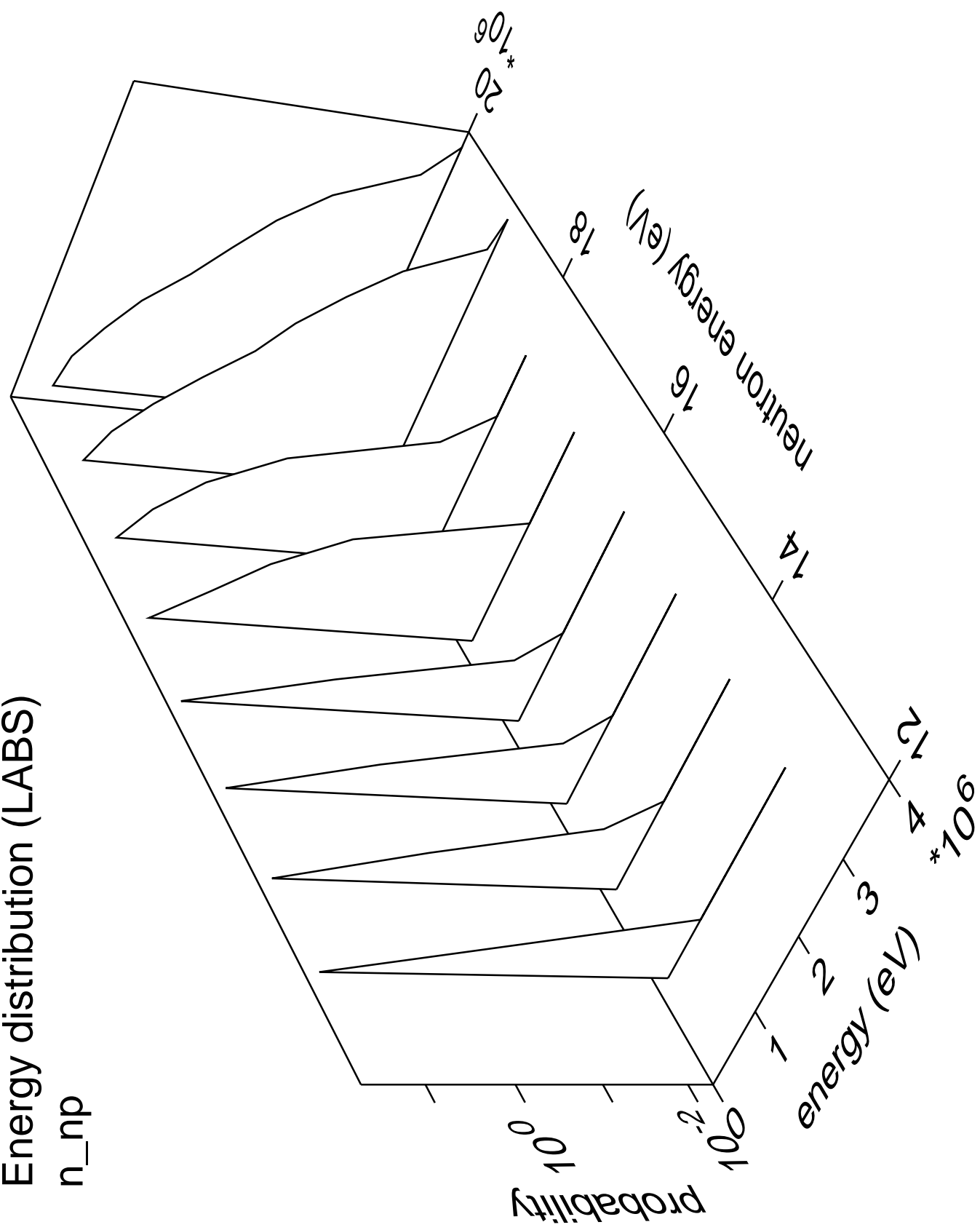10^{-1}

neutron energy (eV)

20 *10^6

15

10

5

6 *10^6

4

2

0
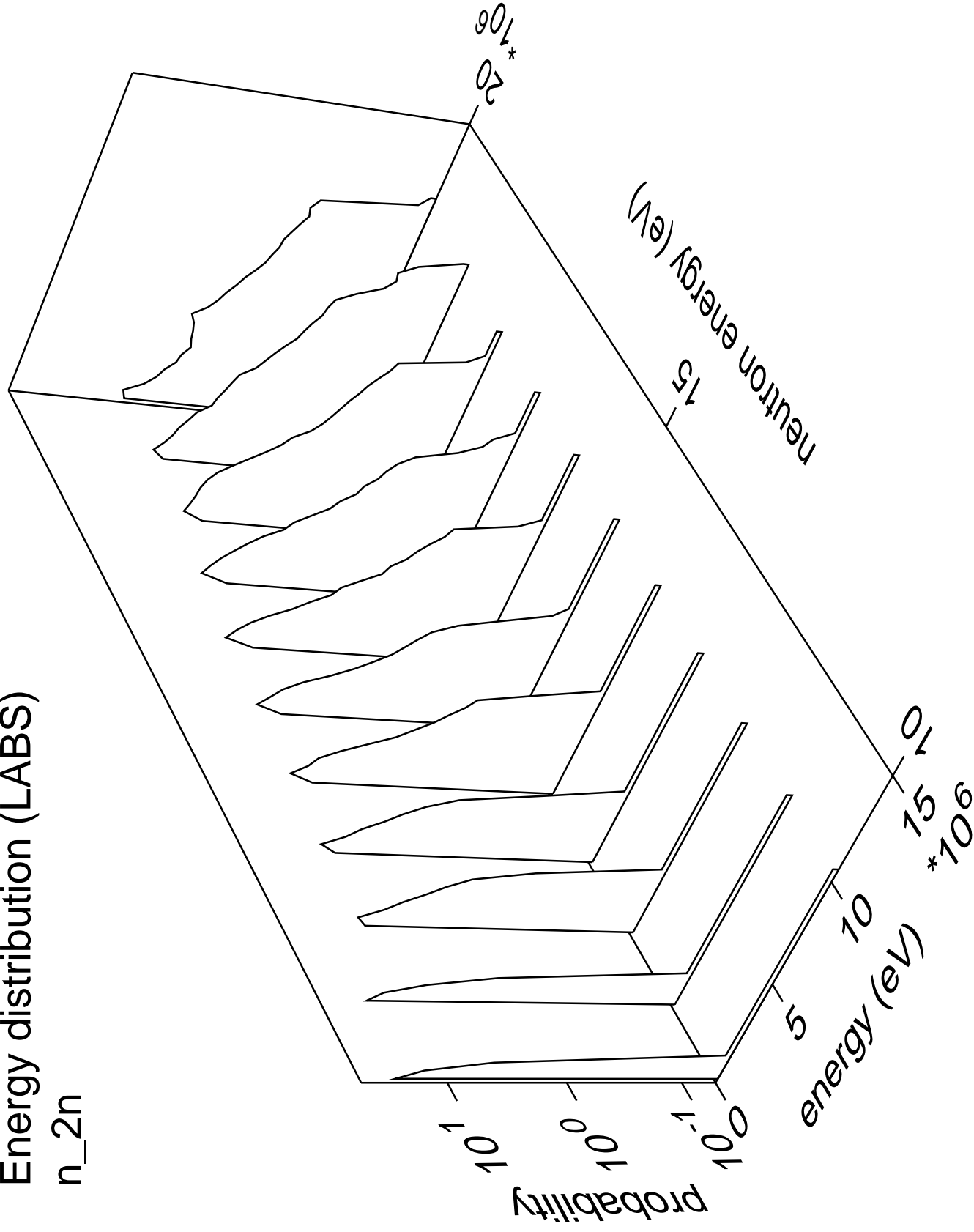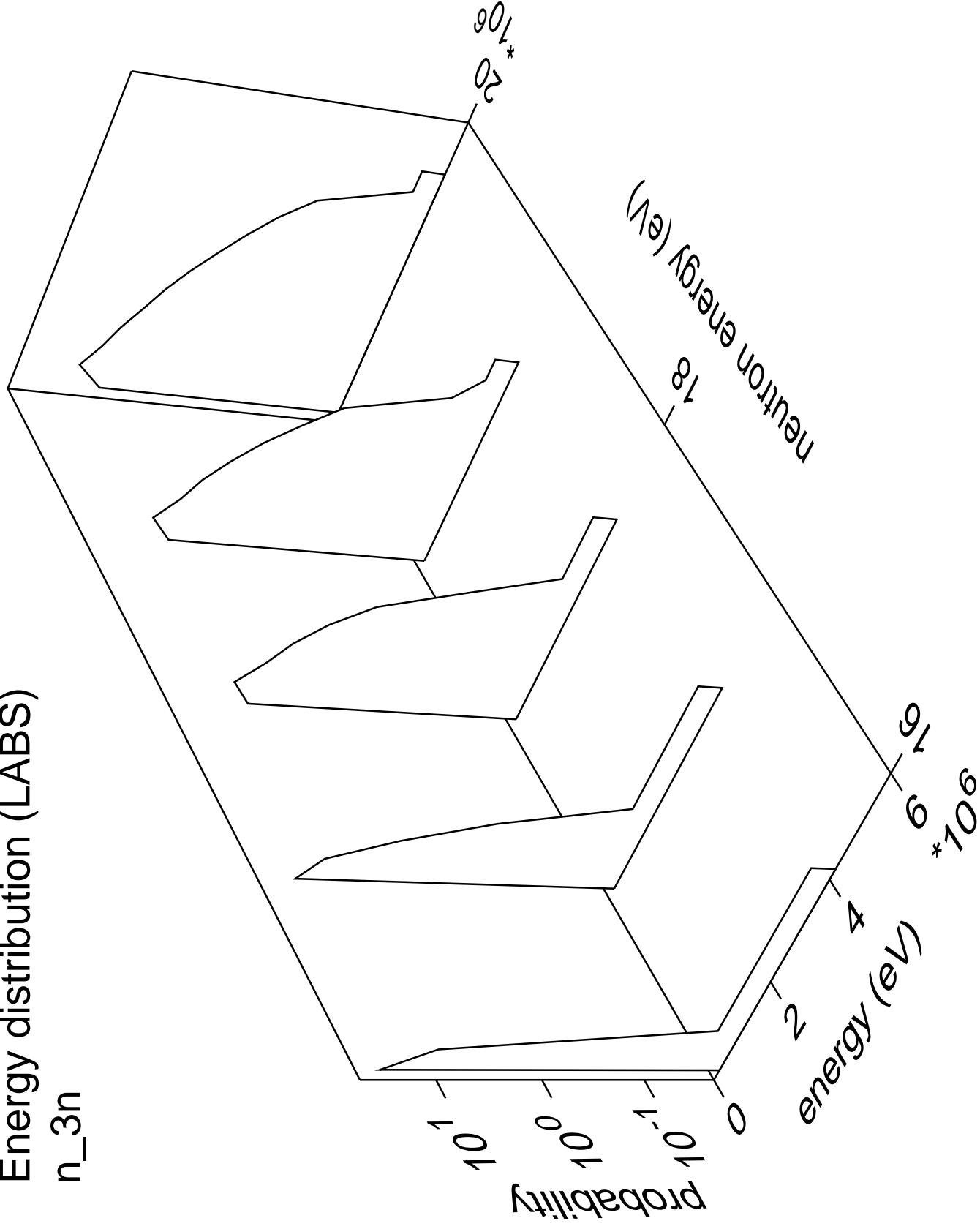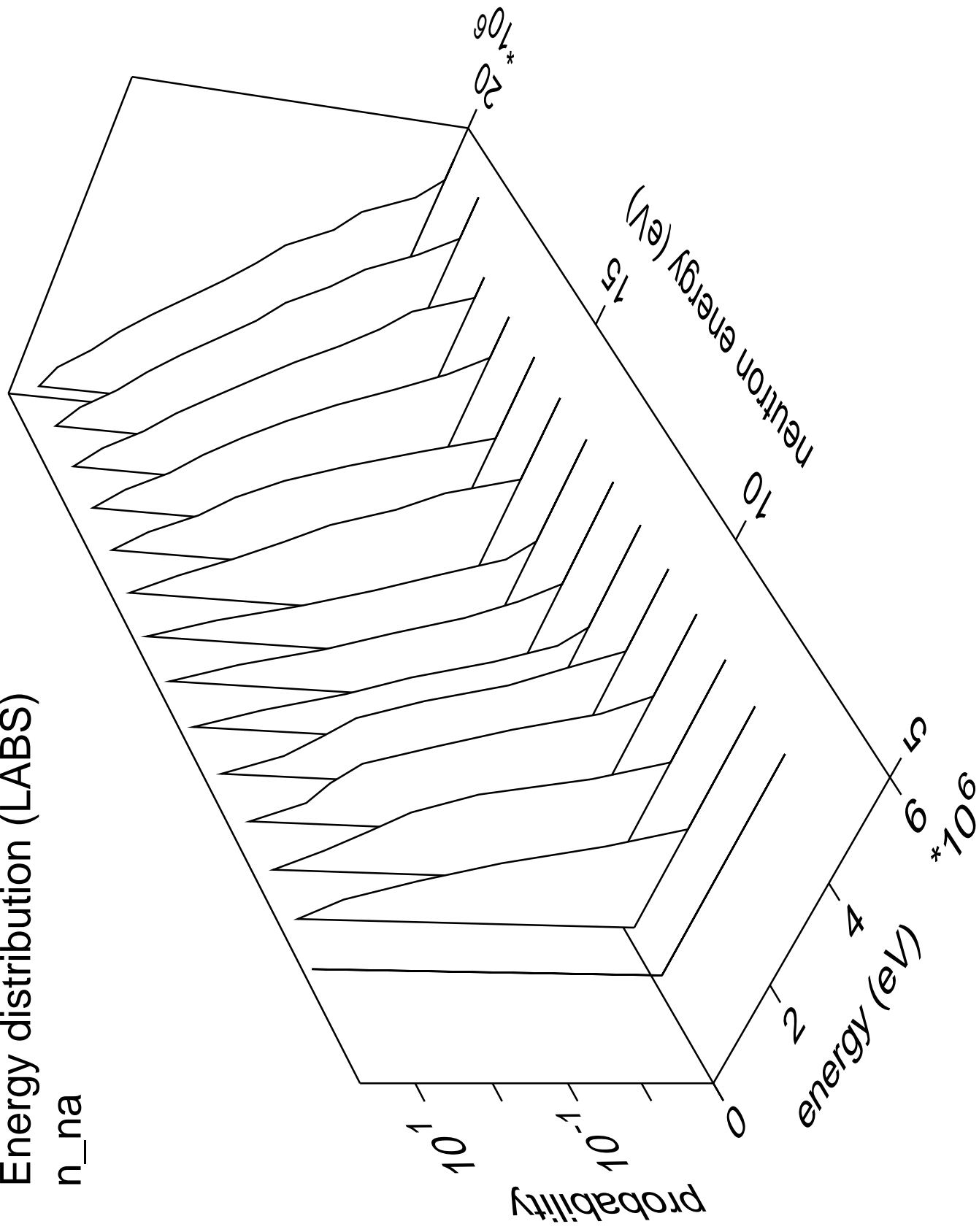
energy (eV)

Energy distribution (LABS)
n_np

Energy distribution (LABS)
n_n_cont

probability

10^1

10^{-1}

energy (eV)

0   5   10   15   20   *10^6

neutron energy (eV)

5   10   15   20   *10^6